



TITLE:

INVERTEBRATE FAUNA OF THE INTERTIDAL ZONE OF THE TOKARA ISLANDS -VIII.MOLLUSCAN SHELLS-

AUTHOR(S):

Oyama, Katura; Yamamoto, Torao; Tokioka, Takasi

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INVERTEBRATE FAUNA OF THE INTERTIDAL ZONE OF THE TOKARA ISLANDS

VIII. MOLLUSCAN SHELLS¹⁾²⁾

KATURA OYAMA, TORAO YAMAMOTO and TAKASI TOKIOKA

Molluscan shells of the following list were identified by the first two authors. The specimens, about 500 in all, were collected by the last author and composed of shells of living animals and empty shells stranded along the beach or picked up from the tips by the dwellings of the inhabitants of the islands. Names of molluscs found in the memorandums by the last author on the fauna of the Islands were also included in the list and marked by the abbreviation "mem." instead of the specimen number.

There still remain 115 specimens which could not be identified by the present authors and were submitted for further examination to Dr. T. KURODA and Mr. T. HABE, to whom we wish to express here our hearty thanks for their kindness in identifying some of the specimens listed below.

LIST OF THE SPECIES IDENTIFIED

	GASTROPODA	Takarazima	Nakanosima
Fissurellidae			
1. <i>Emarginula variegata</i> A. ADAMS	TK. No. 435		
ススイロスソケレガイ			
2. <i>Scutus emarginatus</i> (PHILIPPI)	436		
リュウキユウオトメガイ			
3. <i>Clypidina (Montfortula) pulchra</i> (A. ADAMS)	437		
スソカケガイ			
4. <i>Diodora mus</i> (REEVE)	444		
アサテンガイ			
Patellidae			
5. <i>Patella (Penepatella) optima</i> PILSBRY	441		442*
スオツクノハ			
6. <i>Cellana toreuma</i> (REEVE)			438, 439*
ヨメガカサ			
7. <i>Cellana eucosmia</i> (PILSBRY)			440
ベツコウザラ			

1) Scientific Survey of the Tokara Islands, Report No. 10.

2) Contributions from the Seto Marine Biological Laboratory, No. 234.

* Also found in Suwanosezima (mem.).

	Takarazima	Nakanosima
8. <i>Cellana nigrisquamata</i> (REEVE) カ サ ガ イ		*
Lottiidae		
9. <i>Patelloida</i> sp. キクコザラ	443	
Trochidae		
10. <i>Alcyna ocellata</i> A. ADAMS キ バ ベ ニ バ イ	446	
11. <i>Monodonta neritoides</i> (PHILIPPI) ク ロ ズ ケ ガ イ		447
12. <i>Clanculus stigmatarius</i> A. ADAMS ベ ニ フ ナ ツ モ モ	448	
13. <i>Trochus maculatus</i> LINNÉ ニ シ キ ウ ズ	449, 450	mem.
14. ? <i>Tectus (Pyramidea) maximus</i> (PHILIPPI) サ ラ サ バ イ	mem.	
Turbinidae		
15. <i>Liotina peroni</i> (KIENER) リュウキユウヒメカタベ	451	
16. <i>Liotina (Dentarene) cycloma</i> (TOMLIN) ハグルマヒメカタベ	452	
17. <i>Collonista granulosa</i> (PEASE) コダマサンシヨウスガイ	453	
18. <i>Turbo (Olearia) marmoratus</i> LINNÉ ヤ コ ウ ガ イ	454-458	mem. *
19. <i>Turbo (Marmarostoma) setosus</i> GMELIN マル サ サ エ	459, 460	461
20. <i>Turbo (Marmarostoma) argyrostomus</i> LINNÉ チヨウセンサザエ	462	463
Neritidae		
21. <i>Nerita (undata) striata</i> BURROW コシタカアマガイ	316	317
22. <i>Nerita (Ritena) helicinoides laevilabris</i> PILSBRY イシダミアマガイ	318	
23. <i>Nerita (Ritena) plicata</i> LINNÉ キ バ ア マ ガ イ	319	320
24. <i>Nerita (Ritena) costata</i> GMELIN フトスシアマガイ	321	322
25. <i>Nerita (Ritena) reticulata</i> KARSTEN クチベニアマオブネ		323
26. <i>Nerita (Theliostyla) albicilla</i> LINNÉ ア マ オ ブ ネ	324	325
27. <i>Nerita (Amphinerita) polita</i> LINNÉ ニシヤアマオブネ	326	327-330
28. <i>Nerita (Amphinerita) insculpta</i> RÉCLUZ リュウキユウアマガイ		331
Cyclophoridae		
29. <i>Cyclophorus turgidus</i> (PHEIFFER) オキナワヤマタニシ	464	
Littorinidae		
30. <i>Tectarius (Nodilittorina) granularis</i> (GRAY) アラレタマキビ		332

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31. <i>Tectarius (Nodilittorina) pictus</i> (PHILIPPI) タイワンタマキビ		333
32. <i>Tectarius (Nodilittorina) vilis</i> (MENKE) イボタマキビ	344	345
33. <i>Littorinopsis scabra</i> (LINNÉ) ウズラタマキビ		334
34. <i>Littorinopsis undulata</i> (GRAY) ホソスジウズラタマキビ	335	336-340
35. <i>Littorinopsis pintado</i> (WOOD) コウダカタマキビ	342	343
36. <i>Littorinopsis obesa</i> (SOWERBY) テリタマキビ	341	
Rissoidae		
37. <i>Rissoina (Phosinella) cerithiiformis</i> DUNKER キンスジチヨウジガイ	346	
38. <i>Rissoina subfirmata</i> BOETTGER フトスジチヨウジガイ	347	
Assimineidae		
39. <i>Paludinella stricta</i> GOULD ウスイロヘソカドガイ		348
40. <i>Angustassiminea castanea satumana</i> HABE サツマクリイロカワザンシヨウ	349	
Vermiculariidae		
41. <i>Vermetus gordialis</i> MÖRCH リユウキユウムカデ		351
42. <i>Spiroglyphus</i> sp. ミジシムカデ		352
43. <i>Lemintina</i> sp. ヘビガイの1種		353
44. <i>Bivonia dragonella</i> KURODA MS. タツノコヘビガイ		354
Thiaridae		
45. <i>Semisulcospira libertina</i> (GOULD) カワニナ		355
Planaxidae		
46. <i>Planaxis (Angiola) virgatus</i> SMITH ヨコスジタマキビモドキ	356	357
Cerithiidae		
47. <i>Bittium (Plesiotrochus) oosimense</i> (WATSON) オオシマナグサカニモリ	358	359
48. <i>Cerithium (Ochetoclava) sinense</i> (GMELIN) トウガタカニモリ	360	
49. <i>Contumax echinatus</i> (LAMARCK) メオニツノガイ	361	
50. <i>Semivertagus nesioticus</i> (PILSBRY & VANATTA) クリムシカニモリ		362
51. <i>Semivertagus zebra</i> (KIENER) ハナカニモリ		363
52. <i>Semivertagus stigmosus</i> (GOULD) クリフカニモリ	364	
53. <i>Conocerithium atromarginatum</i> (DESHAYES) コンシボリツノブエ	365	366

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Triphoridae		
54. <i>Triphora lamberti</i> (HERVIER) ミケイロハツプトキリオレ	367	
55. <i>Triphora</i> sp.	368	
Epitoniidae		
56. <i>Gyroscala perplexa</i> (PEASE) ネ シ ガ イ	228	
57. <i>Epitonium (Foliaceiscala) dubia</i> (SOWERBY) ハブタエセキモリ	229	
Janthinidae		
58. <i>Janthina janthina</i> (LINNÉ) コンダカアサガオガイ	mem.	
59. <i>Janthina balteata</i> REEVE アサガオガイ	230	231
60. <i>Janthina (Violetta) globosa</i> BLAINVILLE ル リ ガ イ	232	mem.
61. <i>Janthina (Iodina) umbilicata</i> d'ORBIGNY ヒメルリガイ	233	mem.
62. <i>Recluzia montrouzieri</i> BRAZIER	234	
Naticidae		
63. <i>Polinices (Gloussaulax) didyma</i> (RÖDING) ツメタガイ	mem.	
64. <i>Natica (Naticarius) concinna</i> DUNKER フロガイダマシ	475	
65. <i>Natica (Notocochlis) picta</i> RÉCLUZ カザリダマ		476
66. ? <i>Natica (Notocochlis) sagittata</i> MENKE ハギノツユ	477	
67. <i>Natica (Tanea) rufilabris</i> REEVE ホウシユノタマ		478
Merriidae		
68. <i>Merria ligata</i> (RÉCLUZ) マルシロネズミガイ	465	
69. <i>Merria gueriniana</i> (RÉCLUZ) イトカケシロネズミガイ	466	467
Amaltheidae		
70. <i>Amalthea (Antisabia) foliacea</i> (QUOY & GAIMARD)	468	469
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Calyptraeidae		
72. <i>Cheilea equestris</i> (LINNÉ) フウリンチドリ	472	
Strombidae		
73. <i>Strombus (Conomurex) luhuanus</i> LINNÉ マガキガイ	mem.	
74. <i>Strombus (Canarium) urceus</i> LINNÉ ムカシタモト	473	474

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75. <i>Strombus</i> (<i>Aliger</i>) <i>latissimus</i> LINNÉ ゴホウラ	mem.	
76. <i>Lambis</i> (<i>Lambis</i>) (LINNÉ) クモガイ	mem.	
77. <i>Lambis</i> (<i>Harpago</i>) <i>chiragra</i> (LINNÉ) スイジガイ	mem.	mem.
Eratoidea		
78. <i>Erato</i> (<i>Eratoena</i>) <i>sulcifera nana</i> (SOWERBY) ザクロモドキ	206	
79. <i>Trivirostra</i> <i>edgari</i> (SHAW) ハダカムギガイ	207	mem.
Amphiperatidae		
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Cypraeidae		
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105. <i>Cypraea (Ponda) carneola</i> LINNÉ クナムラサキダカラ	202, 203	204
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Cassididae		
107. <i>Cassis cornuta</i> (LINNÉ) トウカムリ	mem.	
Cymatiidae		
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Tonnidae		
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Muricidae		
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Rapidæ		
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Vasidae		
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GENERAL REMARKS ON THE MOLLUSCAN FAUNA

From the last author's observations on the islands and from an examination of the present material, some of the following features seem to be accepted safely as hints of the characteristics of the molluscan fauna of these islands.

1. Common shells in Takarazima and Nakanosima.

Pelecypoda: *Asaphis dichotoma* (ANTON) is the commonest species in both islands, next is *Venus* (*Periglypta*) *reticulata* LINNÉ. *Cyclotellina* (*Scutarcopagia*) *scobinata* (L.) is common in Takarazima, but rather rare in Nakanosima.

Neritidae: *Nerita* (*undata*) *striata* BURROW, *Nerita* (*Ritena*) *plicata* L. and *Nerita* (*Theliostyla*) *albicilla* L. are met with frequently in both Takarazima and Nakanosima. *Nerita* (*Ritena*) *helicinoides laevilabris* PILSBRY was common in Takarazima, but not found at all in Nakanosima where *Nerita* (*Amphinerita*) *insculpta* RÉCLUZ was found rather commonly. *Nerita* (*Amphinerita*) *polita* L. is more abundant in Nakanosima than in Takarazima. *Nerita* (*Ritena*) *costata* GMELIN is very rare in both islands.

Littorinidae: The littorinid fauna in both islands mostly consist of *Tectarius* (*Nodilittorina*) *vilis* (MENKE). In Nakanosima, a considerable number of *Tectarius* (*Nodilittorina*) *granularis* (GRAY) and *Littorinopsis undulata* (GRAY) were found in the littorinid zone, while in Takarazima the last author found only 3 shells of the former and 2 of the latter, which are less than 7 mm in height against 13 mm in individuals from Nakanosima. *Littorinopsis obesa* (SOWERBY) was found sparsely in Takarazima. *Tectarius* (*Nodilittorina*) *pictus* (PHILIPPI), *Littorinopsis pintado* (WOOD) and *Littorinopsis scabra* (L.) were all very rare. Generally speaking the littorinid fauna is very simple in Takarazima, this is probably due to poor flow of the fresh water and the regular outline of the island.

Cypraeidae: *Mauritia* (*Mauritia*) *mauritiana calxequina* (MELVILL & STANDEN) and *M.* (*Arabica*) *arabica asiatica* SCHILDER & SCHILDER are common in both islands. *Pustularia* was met with frequently only in Takarazima.

Muricidae: *Drupa* (*Drupa*) *morum* RÖDING and *Drupa* (*Drupa*) *ricina* (L.) are common in both Takarazima and Nakanosima, slightly commoner in the former locality than in the latter. *Drupa* (*Cronia*) *margariticola* (BRODERIP), *Drupa* (*Morulina*) sp. (No. 129) and *Drupa* (*Drupa*) *albolabris* (BLAINVILLE) were found rather commonly in Takarazima, but not found at all in Nakanosima. *Purpura kieneri* (DESHAYES) was found in both islands, while shells of *Purpura persica* (L.) and *P. rudolphi* (LAM.) were found only in Nakanosima. *P. persica* and *P. rudolphi* are generally used for food by the inhabitants in Nakanosima and this is the reason

why remains of these snails were found abundantly on that island.

Buccinidae: *Engina mendicaria* (L.) is common on the reef in both islands.

Mitridae: *Mitra* (*Strigatella*) *virgata* REEVE and *Mitra* (*Strigatella*) *decurtata* REEVE are common in both islands. A considerable number of *M. (St.) litterata* LAM. and *M. (St.) zebra* LAM. were found also in Takarazima.

Conidae: *Conus* (*Virroconus*) *ebraeus* L. and *G. (V.) chaldaeus* (RÖDING) are the commonest conids in both islands. *C. (Stephanoconus) lividus* BRUGUIÈRE, *C. (Lithoconus) flavidus* LAM., *C. (V.) fulgetrum* SOW., *C. (Pinoconus) cinereus* BRUGUIÈRE and *C. (Rhizoconus) rattus* BRUGUIÈRE, all yellowish brown in colour when alive, were found rather frequently.

Siphonariidae: The siphonariid fauna differs distinctly between Takarazima and Nakanosima. In the former, *Siphonaria rucuana* PILSBRY and *S. laciniosa* (L.) were found commonly, especially *S. rucuana* which was found only in this island. In the latter, *S. subatra* PILSBRY was found commonly; *S. atra* Q. & G. was found solely in this island, though few in number.

Brackish area: *Melampus caffer* (KÜSTER) is common in both islands. *Paludinella stricta* GOULD* was common in Nakanosima, while in Takarazima *Angustassiminea castanea satumana* HABE was found frequently.

Lapd shells: Empty shells of *Bradybaena* (*Acusta*) *despecta* (SOWERBY) scattered very abundantly in "Sabaku" of Takarazima were one of the most impressive sights in this island.

2. Species found under stones.

Isognomon perna (L.) and *Planaxis* (*Angiola*) *virgatus* SMITH occur commonly in both islands. The molluscs found under stones are much richer in Takarazima than in Nakanosima; namely *Pinctada panasesae* (JAMESON), *Chama brassica* REEVE (var.), *Anachis* (*Zafra*) *sinensis* (SOW.), *Emarginula variegata* A. ADAMS, *Collonista granulosa* (PEASE), *Triphora* sp., *Kermia chichijimana* PILSBRY var. and *Bittium* (*Plesiotrochus*) *oosimense* (WATSON) were found in Takarazima in a considerable number. The last one of these species was found also in Nakanosima, but very few in number.

3. Some characteristics of the molluscan fauna in both islands.

Rich fauna in Takarazima: 204 species occurred in Takarazima and 141 species

* *Angustassiminea castanea satumana* HABE read in the 24th line, p. 135, Vol. III, No. 2 of this journal must be corrected as *Paludinella stricta* GOULD.

in Nakanosima. Small or delicate shells, for instance Atyids or Pteropods are found much more abundantly and perfectly in Takarazima than in Nakanosima. This is probably due to the topographic difference between the coasts of the islands. The beach of Nakanosima seems to be too rough to preserve those shells perfectly. Nevertheless, the molluscan fauna of Nakanosima has some representatives which are very rare or not included in the collection from Takarazima, namely *Septifer excisus* (WIEGMANN), *Spondylus* spp., *Tridacna* (*Vulgodacna*) *maxima* (RÖDING), *Cellana* spp., Vermiculariids and Rapids.

Differences of size and colour in some species: *Isognomon acutirostris* (DUNKER) reaches 21 mm in length in Takarazima, while most of shells from Nakanosima are less than 9 mm in length, although some stranded empty shells reach 24 mm. *Gryphaea* (*Saxostrea*) *mordax* GOULD seems to grow better in Takarazima than in Nakanosima; it reaches 40 mm × 65 mm ~ 45 mm × 70 mm in size of the shell in the former, while the largest shells in the latter location are 20 mm × 45 mm ~ 25 mm × 35 mm. Some shells attached to the stones near the mouth of the brook on the western coast of Nakanosima are very irregular in shape and assume a generally peculiar appearance which may easily lead to misidentification. *Purpura kieneri* (DESHAYES), *Nerita* (*undata*) *striata* BURROW and *Nerita* (*Ritena*) *plicata* L. are all smaller in Nakanosima than in Takarazima; respectively 25 mm in height in Nakanosima and 35 mm in Takarazima, 22 mm in diameter in Nakanosima and 27 mm in Takarazima, and 14 mm in diameter in Nakanosima and 22 mm in Takarazima. Among the living animals examined, *Nerita* (*Theliostyla*) *albicilla* L. seems to be coloured darker in Nakanosima than in Takarazima. *Nerita* (*Amphinerita*) *polita* L. shows the same tendency and at the same time shows a richer variety of colouration and pattern in Nakanosima.

Occurrence of tropical shells in Takarazima: *Cassis cornuta* (L.), *Strombus* (*Aliger*) *latissimus* L. and *Lambis lambis* (L.) were observed only in Takarazima, although they were all stranded empty shells. The shell of *Lambis* (*Harpago*) *chiragra* (L.) was found in both islands, but that observed in Nakanosima was a young one. *Turbo* (*Olearia*) *marmoratus* L., the most important gastropod in these islands both as the source of the material for the artistic shellwork and as an important source of food, is also much more abundant in Takarazima than in Nakanosima.